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| 10/017,554 | 12/14/2001 | Do-Jun Park | 678-698(P9780) | 8136 |

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| EXAMINER |
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SCHIEBEL, ROBERT C

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| ART UNIT | PAPER NUMBER |
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2616

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| MAIL DATE | DELIVERY MODE |
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06/11/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/017,554

Applicant(s)

PARK ET AL.

Examiner

Robert C. Scheibel

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 11-18 is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) 5-10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

- Examiner acknowledges receipt of Applicant's Amendment received 3/16/2007.
- Claims 1-18 are currently pending.

Response to Arguments

1. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new grounds of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,374,112 to Widegren et al.

Regarding claim 1, Widegren discloses a method of providing a packet call service via an Internet Protocol (IP) based network in a wireless mobile communication system (see figure 1), comprising the steps of: constructing a set of service primitive information including radio physical channel assignment information and information on a type of call service and a corresponding quality of service (QoS) in accordance with at least one service class for the packet call service (see the passage from line 64 of column 10 through line 51 of column 11; the

Art Unit: 2616

quality of service parameters are clearly listed in this section and also correspond to the traffic classes disclosed earlier in column 10; the set of service primitive information is this set of radio access bearer parameters); determining a service primitive combination according to a service class of a packet call based on the constructed service primitive information, if a packet call for at least one mobile terminal is generated (see the passage from line 52 of column 11 through line 11 of column 12; the service primitive combination is the one or more traffic parameters in this section and the service class is the traffic class); assigning a predetermined forward channel and a predetermined reverse channel to the at least one mobile terminal, the predetermined forward channel and the predetermined reverse channel corresponding to the determined service primitive combination (see lines 7-11 of column 12; lines 61-66 of column 8 as well as lines 31-36 of column 11 disclose that this process is used for assigning both forward (downlink) and reverse (uplink) channels); and providing the at least one mobile terminal with the packet call service by using the assigned forward channel and assigned reverse channel (see lines 7-11 of column 12 ("and the multimedia call proceeds"), for example).

Regarding claim 2, Widegren discloses the limitation that the service primitive combination is determined on the basis of service class information of the packet call received from the IP network in lines 7-14 of column 10, for example. The feedback on the availability of resources (from the IP network in the case of a packet call) is service class information and is clearly received from the IP network.

Regarding claim 3, Widegren discloses the limitation that the service class information of the packet call is input by a user of the at least one mobile terminal in lines 54-61 of column 11,

Art Unit: 2616

for example, which shows that the traffic class and quality of service are requested by the user (via the service nodes) when the call is set up.

Regarding claim 4, Widegren discloses the limitation that the service primitive information includes radio channel assignment information for an interactive call in the passage from line 64 of column 10 through line 51 of column 11. These parameters include radio channel assignment information and some of these service classes are clearly interactive in nature.

Allowable Subject Matter

4. Claims 5-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 11-18 are allowed.

6. The following is a statement of reasons for the indication of allowable subject matter: Regarding independent claim 11, the prior art of record does not disclose, teach, or make obvious the limitations that “upon request of a packet call to the IP network, transmitting from the IP network service class information for the packet call to a base station in the wireless mobile communication system” and “analyzing the service class information in the base station, and if the packet call is an interactive group call serving a semi half-duplex communication, determining a service primitive combination corresponding to the group call based on predefined service primitive information” in combination with all other limitations in the claim. Similarly,

Art Unit: 2616

regarding claims 12, 17, and 18, the prior art of record does not disclose, teach, or make obvious the “upon request...” and “analyzing...” steps in combination with all other limitations of these claims. Claims 13-16 depend upon claim 12 and are thus allowable for reasons indicated above.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. Patent Application Number 2002/0122432 to Chaskar discloses a method for communicating data based on a plurality of traffic classes.
- U.S. Patent 6,728,365 to Li et al discloses a method for providing quality-of-service on packet-based wireless connections.
- U.S. Patent 6,937,566 to Forslow discloses a method of dynamic quality of service reservation in a mobile communications network.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert C. Scheibel whose telephone number is 571-272-3169.

The examiner can normally be reached on Monday and Thursday from 6:30-5:00 Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing F. Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RCS 6-4-07

Robert C. Scheibel
Patent Examiner
Art Unit 2616

Wing Chan
6/6/07

WING CHAN
SUPERVISORY PATENT EXAMINER